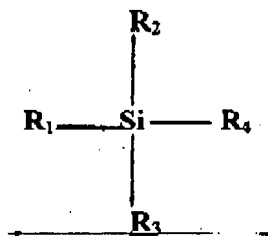


Please amend the specification as follows:

Page 11, please replace the paragraph beginning at line 21, with the following paragraph, amended as indicated:

The subject SOG material is preferably produced in a non-aqueous media and may be heat cured or UV light cured, depending upon the exact structure of the material. The SOG material of the present invention is preferably produced from an alkyl substituted trialkoxysilane, ~~or an~~ an alkyl dialkoxysilane or a dialkyl substituted dialkoxysilane, wherein the alkyl group has 1 to 8 methyl groups, represented by the formula:



Wherein in the formula:

R₁ = Hydrogen, C₁ to C₈ Alkyl, Halogenated C₁ to C₈ Alkyl, Methacryloxyalkyl, Acryloxyalkyl or Glycidyoxyalkyl;

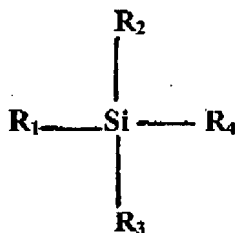
R₂ = Ethyl, Propyl, Another C₁ to C₈ Alkyl, Halogenated C₁ to C₈ Alkyl, Phenyl, Substituted Phenyl such as Halogenated Phenyl, Trifluoroalkyl such as Trifluoropropyl;

R₃ = Methyl, Ethyl, Another C₁ to C₈ Alkyl;

R₄ = Methoxy, Ethoxy, Propoxy, Butoxy, or another Alkoxy.

The following is the full clean text of the amended paragraph from Page 11, beginning at line 21:

The subject SOG material is preferably produced in a non-aqueous media and may be heat cured or UV light cured, depending upon the exact structure of the material. The SOG material of the present invention is preferably produced from an alkyl trialkoxysilane, an alkyl dialkoxysilane or a dialkyl dialkoxysilane, wherein the alkyl group has 1 to 8 methyl groups, represented by the formula:



Wherein in the formula:

R₁ = Hydrogen, C₁ to C₈ Alkyl, Halogenated C₁ to C₈ Alkyl, Methacryloxyalkyl,

Acryloxyalkyl or Glycidyoxyalkyl;

R₂ = Ethyl, Propyl, Another C₁ to C₈ Alkyl, Halogenated C₁ to C₈ Alkyl, Phenyl,

Substituted Phenyl such as Halogenated Phenyl, Trifluoroalkyl such as Trifluoropropyl;

R₃ = Methyl, Ethyl, Another C₁ to C₈ Alkyl;

R₄ = Methoxy, Ethoxy, Propoxy, Butoxy, or another Alkoxy.

Page 12, please replace the paragraph beginning at line 12, with the following paragraph amended as indicated:

A process is provided for producing the subject sol-gel spin-on glass (SOG) material of the present invention by: reacting an alkyl ~~substituted~~ trialkoxysilane, or an alkyl dialkoxysilane or a dialkyl ~~substituted~~ dialkoxysilane with a silane diol, wherein said alkyl group has from 1 to 8 carbon atoms. The silane diol is preferably a diphenylsilanediol, a 1,3-Bis (3-hydroxypropyl) tetramethoxysilane, a 1,3-Bis (4-hydroxybutyl) tetramethylsilane, a fluorinated silane diol, or a mixture of one or more of these silane diols. The alkyl group may be replaced with a methacryloxypropyl, acryloxypropyl, or epoxy moiety. The alkyl trialkoxysilane may have one C₁ to C₈ alkyl, methacryloxypropyl and/or alkoxy groups on the same molecule and the alkyl dialkoxysilane or dialkyl ~~substituted~~ dialkoxysilane may have one or more C₁ to C₈ alkyl, methacryloxypropyl and/or alkoxy groups on the same molecule. The process may further comprise adding an inorganic or organic dopant, wherein the dopant preferably comprises a phosphor dopant (such as a YAG base phosphor, moisture sensitive phosphor nano-particles, or an organic material such as an organic dye or a metal complex).

The following is the full clean text of the amended paragraph from 12, beginning at line 12:

A process is provided for producing the subject sol-gel spin-on glass (SOG) material of the present invention by: reacting an alkyl trialkoxysilane, an alkyl dialkoxysilane or a dialkyl dialkoxysilane with a silane diol, wherein said alkyl group has from 1 to 8 carbon atoms. The silane diol is preferably a diphenylsilanediol, a 1,3-Bis (3-hydroxypropyl) tetramethoxysilane, a 1,3-Bis (4-hydroxybutyl) tetramethylsilane, a fluorinated silane diol, or a mixture of one or more of these silane diols. The alkyl group may be replaced with a methacryloxypropyl, acryloxypropyl, or epoxy moiety. The alkyl trialkoxysilane may have one C₁ to C₈ alkyl, methacryloxypropyl and/or alkoxy groups on the same molecule and the alkyl dialkoxysilane or dialkyl dialkoxysilane may have one or more C₁ to C₈ alkyl, methacryloxypropyl and/or alkoxy groups on the same molecule. The process may further comprise adding an inorganic or organic dopant, wherein the dopant preferably comprises a phosphor dopant (such as a YAG base phosphor, moisture sensitive phosphor nano-particles, or an organic material such as an organic dye or a metal complex).